

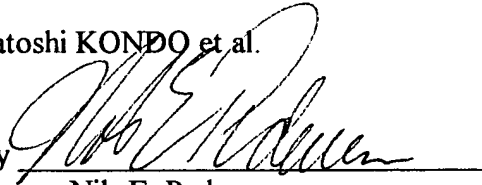
**REMARKS**

The present Preliminary Amendment is submitted to delete the multiple dependency of the claims, thereby placing such claims in condition for examination and reducing the required PTO filing fee.

Respectfully submitted,

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between two pixels across the boundary of blocks/motion-compensation-units which is the boundary of adjacent blocks as well as the boundary of adjacent motion compensation units, and a second difference in pixel values between two pixels which belong to a block in the vicinity of the boundary of blocks/motion-compensation-units; and

performing detection of block distortion at the boundary of blocks/motion-compensation-units, using the values of the first and second differences and the amount of motion in motion compensation units across the boundary of blocks/motion-compensation-units, by a detection method in which the volume of processing decreases as the resolution of the decoded image signal becomes larger.

7. A block distortion detection method as defined in Claim 5 ~~or~~ ✓  
~~6~~, wherein the reduction of the volume of processing is carried out by reducing the number of pixels to be used for detection of block distortion.

8. A block distortion detection method as defined in Claim 5 ~~or~~ ✓  
~~6~~, wherein the reduction of the volume of processing is carried out by reducing the number of strength levels of block distortion to be detected.

9. A block distortion detection method as defined in Claim 6,

wherein the reduction of the volume of processing is carried out by executing no detection of block distortion using the amount of motion when the resolution is high.

10. A block distortion removal method for removing the block distortion which is detected by the block distortion detection method according to ~~any of Claim 2, Claim 3, Claim 5, and Claim 6,~~ wherein the pixel values of pixels in the vicinity of the block boundary are corrected according to the result of the detection of block distortion.

11. A block distortion removal method as defined in Claim 10, wherein the correction of pixel values is carried out using a filter having different characteristics according to the strength levels of block distortion.

12. A block distortion removal method as defined in Claim 10 wherein, after the pixels in the vicinity of the boundary are subjected to a predetermined filtering, the correction of pixel values is carried out by using pixel values which are obtained by performing weighted-averaging on the pixels of the decoded image and the filtered pixels, according to the strength of the block distortion.

13. A block distortion detection apparatus comprising:

of processing by at least one of the pixel value inspector and the motion vector inspector decreases.

19. A block distortion detection apparatus as defined in Claim 17 ~~or 18~~, wherein the reduction of processing is carried out by reducing the number of pixels to be used for detection of block distortion.

20. A block distortion detection apparatus as defined in Claim 17 ~~or 18~~, wherein the reduction of the volume of processing is carried out by reducing the number of strength levels of block distortion to be detected.

21. A block distortion detection apparatus as defined in Claim 17 ~~or 18~~, wherein the reduction of volume of processing is carried out by executing no detection of block distortion using the motion vector when the resolution is high.

22. A block distortion removal apparatus for removing block distortion detected by the block distortion detection apparatus according to ~~any of Claims 13, 14, 17, and 18~~, comprising:

a block distortion remover for receiving the decoded image signal and the result of block distortion detection, and correcting the pixel values of pixels of the decoded image signal in the vicinity of the boundary, according to the result of block